

Amendments to the Specification:

Please replace paragraph [0019] with the following amended paragraph:

[0019] Other advantages and advantageous developments will result from the subclaims and the ~~only figure~~ accompanying figures of the invention, in which:

Figure 1 is a cross sectional view of a present invention automated gearbox; and,

Figure 2 is a block diagram of a present invention gearbox actuation system.

Please replace paragraph [0020] with the following amended paragraph:

[0020] Figure 1 ~~The only figure~~ shows a ~~diagram illustrating~~ automated gearbox 10 having three gearshift rails ~~1, 2, 3~~ 12, 14 and 16, each comprising ~~respective~~ with their particular gearshift jaws 13a, 13b, 15a, 15b, 17a and 17b. ~~The gearshift~~ Gearshift jaws 13a and 13b of gearshift rails ~~1, 2, 3~~ rail 12 form ~~[[a]]~~ gap [[4]] 18, gearshift jaws 15a and 15b of gearshift rail 14 form gap 20, while gearshift jaws 17a and 17b of gearshift rail 16 form gap 22. ~~in which the~~ Shift finger 24, not shown in any further detail, can be moved within gaps 18, 20 and 22, regardless of whether or not the engine is in gear, for example, in the direction of arrow 26 and/or first bi-directional arrow 28. ~~Gears~~ In the embodiment shown in Figure 1, specific gears are associated with each the particular gearshift rails 1, 2, 3 rail 12, 14 and 16, e.g., first and second gears may be associated with rail 12, third and fourth gears may be associated with rail 14, while fifth and reverse gears may be associated with rail 16. are indicated in each case in the figure.

Please replace paragraph [0021] with the following amended paragraph:

[0021] When a reference travel is started, ~~the~~ shift finger 24 can move laterally in the direction of the N-gap, or in other words the neutral gap, and at the same time can probe periodically upward and downward until a resistance becomes detectable. In Figure 1, These movements lateral movement is indicated by arrow 26, while upward and downward movement

~~is are~~ indicated by first bi-directional arrow 28. ~~arrows in the figure.~~ Once this resistance is eliminated, then ~~the~~ shift finger 24 can be moved upward over the entire neutral gap width, i.e., through gaps 18, 20 and 22, and an opposite reference point can possibly be reached. The direction of selection can thus be adjusted. The concluding adjustment in the gearshift direction, for example, can be performed in ~~[[a]]~~ recess ~~[[5]]~~ 30 that is specially provided for this purpose. After referencing, e.g., moving shift finger 24 within recess 30 according to second bi-directional arrow 32, the shift finger again returns to its position prior to the reference travel.

Please add the following new paragraph after paragraph [0021]:

[0021.1] Figure 2 is a block diagram of gearbox actuation system 40 comprising brushless electric motor 42, automated gearbox 10, engine 44 and means 46 operatively arranged for adjusting at least one reference travel while engine 44 is in gear.